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(FILE 'HOME' ENTERED AT 10:04:49 ON 27 JUL 2009)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH, LIFESCI' ENTERED AT 10:05:49 ON 27 JUL 2009

L1 403075 S (TRANSFER? OR TRANSPORT?) (6A) (TETANUS(W)TOXIN OR PROTEIN OR P  
L2 1242 S (NEURAL OR NEURONAL) (5A) (TRANSFER? OR TRANSPORT?) (6A) (TETANUS  
L3 44815 S BDNF OR NT-4 OR GDNF  
L4 15 S L2 AND L3  
L5 11 DUP REM L4 (4 DUPLICATES REMOVED)

=> d au ti so pi 1-11 15

L5 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN  
AU Paterson, David S.; Thompson, Eric G.; Belliveau, Richard A.; Antalffy, Bobbie A.; Trachtenberg, Felicia L.; Armstrong, Dawna D.; Kinney, Hannah C.  
TI Serotonin transporter abnormality in the dorsal motor nucleus of the vagus in Rett syndrome: Potential implications for clinical autonomic dysfunction  
SO Journal of Neuropathology & Experimental Neurology (2005), 64(11), 1018-1027  
CODEN: JNENAD; ISSN: 0022-3069

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN  
AU Kirihara, Kenji; Suga, Motomu; Tochigi, Mamoru; Araki, Tsuyoshi; Yamasue, Hidenori; Kasai, Kiyoto; Sasaki, Tsukasa  
TI Psychophysiological and neural image-based endophenotype in schizophrenia  
SO Bunshi Seishin Igaku (2005), 5(2), 113-125  
CODEN: BSIUAZ; ISSN: 1345-9082

L5 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN  
IN Roux, Sylvie; Brulet, Philippe; Saint, Cloment Cecile; Barbier, Julien; Molgo, Jordi  
TI Construction of fusion protein of GFP-TTC (tetanus toxin C fragment) and uses for in vivo modulation of neuronal transport  
SO U.S. Pat. Appl. Publ., 39 pp., Cont.-in-part of U.S. Ser. No. 816,467.  
CODEN: USXXCO

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20040170651	A1	20040902	US 2003-662808	20030916
	EP 1681300	A1	20060719	EP 2006-4471	19980812
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
	US 20030004121	A1	20030102	US 2001-816467	20010326
	US 7435792	B2	20081014		
	US 20050060761	A1	20050317	US 2004-817961	20040406
	WO 2005025592	A2	20050324	WO 2004-EP10991	20040915
	WO 2005025592	A3	20051110		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,				

SN, TD, TG

EP 1663286	A2	20060607	EP 2004-765752	20040915
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
US 20060275327	A1	20061207	US 2006-375093	20060315
US 20070092449	A1	20070426	US 2006-543164	20061005

L5 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

AU Dezawa, Mari; Kanno, Hiroshi; Hoshino, Mikio; Cho, Hirotomi; Matsumoto, Naoya; Itokazu, Yutaka; Tajima, Nobuyoshi; Yamada, Hitoshi; Sawada, Hajime; Ishikawa, Hiroto; Mimura, Toshiro; Kitada, Masaaki; Suzuki, Yoshihisa; Ide, Chizuka

TI Specific induction of neuronal cells from bone marrow stromal cells and application for autologous transplantation

SO Journal of Clinical Investigation (2004), 113(12), 1701-1710  
CODEN: JCINAO; ISSN: 0021-9738

L5 ANSWER 5 OF 11 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN

AU Gauthier, Laurent R.; Charrin, Benedicte C.; Borrell-Pages, Maria; Dompierre, Jim P.; Rangone, Helene; Cordeliers, Fabrice P.; De Mey, Jan; MacDonald, Marcy E.; Lessmann, Volkmar; Humbert, Sandrine; Saudou, Frederic [Reprint Author]

TI Huntingtin controls neurotrophic support and survival of neurons by enhancing BDNF vesicular transport along microtubules.

SO Cell, (July 9 2004) Vol. 118, No. 1, pp. 127-138. print.  
CODEN: CELLB5. ISSN: 0092-8674.

L5 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

AU Horst, W. D.

TI Biochemical and physiological processes in brain function and drug actions

SO Handbook of Experimental Pharmacology (2004), 157(Antidepressants), 3-33  
CODEN: HEPHD2; ISSN: 0171-2004

L5 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN

IN Tuszynski, Mark H.

TI Methods for the treatment of neurodegenerative diseases using neurotrophic factors gene delivery in the entorhinal cortex

SO U.S. Pat. Appl. Publ., 7 pp.  
CODEN: USXXCO

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20030124095	A1	20030703	US 2001-39078	20011231
	CA 2471947	A1	20030717	CA 2002-2471947	20021230
	WO 2003056925	A1	20030717	WO 2002-US41701	20021230
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002357394	A1	20030724	AU 2002-357394	20021230
	AU 2002357394	B2	20090108		
	EP 1469734	A1	20041027	EP 2002-806267	20021230
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	JP 2005514408	T	20050519	JP 2003-557299	20021230
	NZ 534263	A	20051223	NZ 2002-534263	20021230

- L5 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN  
AU Bonde, C.; Sarup, A.; Schousboe, A.; Gegelashvili, G.; Noraberg, J.; Zimmer, J.  
TI GDNF pre-treatment aggravates neuronal cell loss in oxygen-glucose deprived hippocampal slice cultures: a possible effect of glutamate transporter up-regulation  
SO Neurochemistry International (2003), 43(4-5), 381-388  
CODEN: NEUIDS; ISSN: 0197-0186
- L5 ANSWER 9 OF 11 MEDLINE on STN DUPLICATE 1  
AU Danzer Steve C; Crooks Kristy R C; Lo Donald C; McNamara James O  
TI Increased expression of brain-derived neurotrophic factor induces formation of basal dendrites and axonal branching in dentate granule cells in hippocampal explant cultures.  
SO The Journal of neuroscience : the official journal of the Society for Neuroscience, (2002 Nov 15) Vol. 22, No. 22, pp. 9754-63.  
Journal code: 8102140. E-ISSN: 1529-2401.
- L5 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN  
AU Rumajogee, Prakasham; Madeira, Alexandra; Verge, Daniel; Hamon, Michel; Miquel, Marie-Christine  
TI Up-regulation of the neuronal serotonergic phenotype in vitro: BDNF and cAMP share Trk B-dependent mechanisms  
SO Journal of Neurochemistry (2002), 83(6), 1525-1528  
CODEN: JONRA9; ISSN: 0022-3042
- L5 ANSWER 11 OF 11 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN  
AU Perrelet, D. [Reprint author]; Sagot, Y.; MacKenzie, A.; Smith, G. M.; Kato, A. C.  
TI Adenoviral gene transfer of CNTF and NAIP can rescue motoneurons after neonatal sciatic nerve axotomy.  
SO Society for Neuroscience Abstracts, (1998) Vol. 24, No. 1-2, pp. 490. print.  
Meeting Info.: 28th Annual Meeting of the Society for Neuroscience, Part 1. Los Angeles, California, USA. November 7-12, 1998. Society for Neuroscience.  
ISSN: 0190-5295.
- => d ab 7-11 15
- L5 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN  
AB A protocol for use of growth factors to stimulate neuronal cell growth and activity in trkB receptor containing cortical tissues, including the entorhinal and hippocampal cortices. The method introduces exogenous growth factor, such as BDNF, NT-4/5 and NT-3, into the EC. The method is useful in therapy of defective, diseased and damaged neurons in the mammalian brain, of particular usefulness for treatment of neurodegenerative conditions such as Alzheimer's disease or for normal aging. A microarray anal. is presented in the examples to demonstrate the gene expression changes following infusion of BDNF in the rat brain.
- L5 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN  
AB Besides its neurotrophic and neuroprotective effects on dopaminergic neurons and spinal motoneurons, glial cell line-derived neurotrophic factor (GDNF) has potent neuroprotective effects in cerebral ischemia. The protective effect has so far been related to reduced

activation of N-methyl-d-aspartate receptors (NMDAr). This study tested the effects of GDNF on glutamate transporter expression, with the hypothesis that modulation of glutamate transporter activity would affect the outcome of cerebral ischemia. Organotypic hippocampal slice cultures, derived from 1-wk-old rats, were treated with 100 ng/mL GDNF for either 2 or 5 days, followed by Western blot anal. of NMDAr subunit 1 (NR1) and two glutamate transporter subtypes, GLAST and GLT-1. After 5-day exposure to GDNF, expression of GLAST and GLT-1 was up-regulated to 169 and 181% of control values, resp., whereas NR1 was down-regulated to 64% of control. However, despite these changes that potentially would support neuronal resistance to excitotoxicity, the long-term treatment with GDNF was found to aggravate the neuronal damage induced by oxygen-glucose deprivation (OGD). The increased cell death, assessed by propidium iodide (PI) uptake, occurred not only among the most susceptible CA1 pyramidal cells, but also in CA3 and fascia dentata. Given that glutamate transporters are able to release glutamate by reversed action during energy failure, it is suggested that the observed increase in OGD-induced cell death in the GDNF-pretreated cultures was caused by the build-up of excitotoxic concns. of extracellular glutamate released through the glutamate transporters, which were up-regulated by GDNF. Although the extent and consequences of glutamate release via reversal of GLAST and GLT-1 transporters seem to vary in different energy failure models, the present findings should be taken into account in clin. trials of GDNF.

- L5 ANSWER 9 OF 11 MEDLINE on STN DUPLICATE 1  
 AB During limbic epileptogenesis in vivo the dentate granule cells (DGCs) exhibit increased expression of brain-derived neurotrophic factor (BDNF), followed by striking morphologic plasticities, namely the formation of basal dendrites and the sprouting of mossy fibers. We hypothesized that increased expression of BDNF intrinsic to DGCs is sufficient to induce these plasticities. To test this hypothesis, we transfected DGCs in rat hippocampal slice cultures with BDNF or nerve growth factor (NGF) via particle-mediated gene transfer, and we visualized the neuronal processes with cotransfected green fluorescent protein. Transfection with BDNF produced significant increases in axonal branch and basal dendrite number relative to NGF or empty vector controls. Structural changes were prevented by the tyrosine kinase inhibitor K252a. Thus increased expression of BDNF within DGCs is sufficient to induce these morphological plasticities, which may represent one mechanism by which BDNF promotes limbic epileptogenesis.
- L5 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2009 ACS on STN  
 AB The effects of brain-derived neurotrophic factor (BDNF) and cAMP on the neuronal serotonergic phenotype were studied in primary cultures of E14 rat embryonic rostral raphe. Short treatments (for 18 h) with BDNF or dibutyryl-cAMP induced an almost two-fold increase in the number of serotonergic neurons and a dramatic extension and ramification of their neurites. These changes were associated with marked increases in the levels of mRNAs encoding the serotonin transporter, the 5-HT1A and 5-HT1B receptors and the BDNF receptor tyrosine kinase B (TrkB). Concomitant blockade of tyrosine kinases by genistein suppressed all the upregulating effects of BDNF and cAMP on 5-hydroxytryptamine (5-HT) neurons. These findings suggest that an auto-amplifying mechanism underlies the promoting effect of BDNF on the differentiation of serotonergic neurons through TrkB activation, which is also triggered by cAMP.
- L5 ANSWER 11 OF 11 BIOSIS COPYRIGHT (c) 2009 The Thomson Corporation on STN

